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basic imagery interpretation report

Kharkov Airframe Plant 135 (S)

STRATEGIC WEAPONS INDUSTRIAL FACILITIES

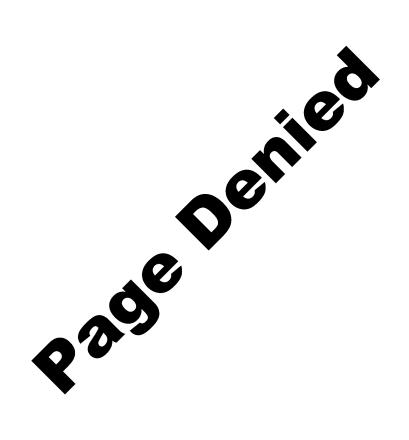
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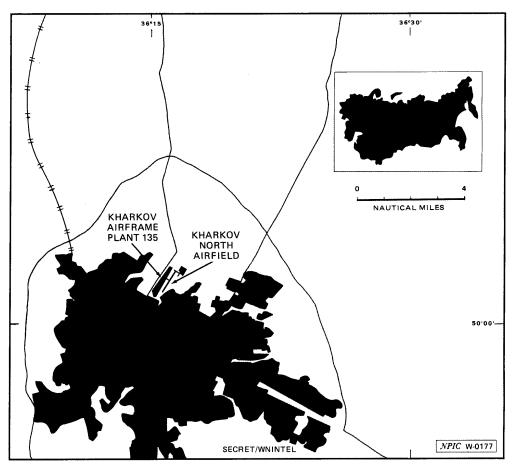


FIGURE 1. LOCATION OF KHARKOV AIRFRAME PLANT 135, USSR

engines. The Tu-134 version of the standard CRUSTY seats 72 passengers or 75 troops, in contrast with the Tu-134A (Figure 4), which was lengthened by approximately forward of the leading edge of the wing and seats 76 passengers or 80 troops. 10. Between at least one standard CRUSTY was observed on every complete coverage of Plant 135. The high count of 10 standard CRUSTYs was observed on and a low count of one imagery of was present on (Table 2). Another indication that Tu-134 production had ended was the observation of a Tu-134 CRUSTY in the static display area (Figure 6) in front of the large final assembly/subassembly building in the southern plant area. Other aircraft in this display included a Tu-104 CAMEL and a Tu-124 COOKPOT, both Tupolev-designed aircraft

previously produced at Plant 135. Conversely, unpainted Tu-134A CRUSTY aircraft (Figure 4) and Tu-134A CRUSTYs with bort numbers from new production runs were often observed. (S/WN)

	11. On a CRUSTY
	with a modified nose section was
	observed on an apron at the south end of the final
	assembly/checkout hangar (Figure 7). With the
	modified nose section, the CRUSTY B fuselage is
	longer than the Tu-134A CRUSTY. The
1	maximum diameter of the new nose section is
	meters. This was the prototype CRUSTY B and,
	unlike any other CRUSTY B identified, it had the
	Aeroflot markings seen on standard CRUSTYs. Al
	other CRUSTY Bs have been observed with the
	standard military gray paint scheme (Figure 5) and
	appear to be new aircraft rather than modified
	older CRUSTY aircraft. Since production began in
	1981, a high count of 15 CRUSTY Bs was observed
	on No CRUSTY Bs were present or
	(Table 2). (S/WN)
	12. CRUSTY B aircraft have been observed
	at several training bases and are probably associat-
	ed with flight crew training. The aircraft has been
	seen at Orenburg Airfield Northeast
	a flight training base in the Volga Military
	District (MD); Tambov Airfield
	pilot training base in the Moscow MD; and Orsk
	Airfield which supports a flight
	training regiment in the Volga MD. (S/WN)
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Table 1. Construction at Kharkov Airframe Plant 135,

(Items keyed to Figure 3)

ant 135,

		_	Dimensions (m)*		Total Floorspace	Date Observed	D
ltem	Description	L	W	Н	(sq m)	Complete	Remarks
1	Admin/assem_bldg				16,650	Jan 83	
2	Assem/subassem bldg				2,429	Ucon	Addition
3	Stor bldg				638	Jul 83	
4	Stor bldg				430	Mar 82	
5	Maint/shop_bldg				236	Aug 80	Addition
6	Admin/control bldg				439	Sep 80	2 stories
7	Maint bldg				177	Jun 78	
8	Shop/maint bldg				502	Ucon	
9	Engr/test_bldg				492	Jun 81	
10	Stor bldg				436	Aug 82	
11	Subassem/hangar bldg				1,382	Ucon	
12	Engr/subassem bldg				4,827	Ucon	4 stories
13	Unid bldg				882	Ucon	
14	Unid bldg				356	Ucon	
15	Admin/engr bldg				7,283	Ucon	
16	Stor bldg				355	Jun 78	
17	Stor bldg				403	Mar 79	
18	Stor bldg				333	Mar 79	
19	Stor bldg				325	Mar 79	
20	Admin/assem bldg				2,345	Ucon	3 stories
	Floorspace under constructi	ion			 17,6	660	
	Floorspace completed durin	g the	reporting per	riod	23,2	260	
	Total completed floorspace	at p	lant		349,4	188	

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Table 2.
Representative Sightings of CRUSTYs at Kharkov Airframe Plant 135,

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	Tu-134/ -134A CRUSTY	CRUSTY B	Total Number Observed		Tu-134/ -134A CRUSTY	CRUSTY B	Total Number Observed		
978				1982					
	4		4		6	6	12	2	25 X
	6		6		6	4	10		
	4		4		5	7	12		
	5		5		4	2	6		
					4	5	9		
					1	6	7		
979					2	6	8		
	9	1	10		3	6	9	2	25X
	6	1	7	1983				_	-0, (
	6	1	7	1983				_	
	2	O			3	3	6	2	25X
	3	0	2		5	2	7		
	2	O	2		4	2	6		
	3	O	2 3 3 5 3		3	2	5		
	3	0	3		4	2	6		
	5 3	0	5		7	О	7		
	3	0	3		2	3	5		
					3 2	5	8		
000					2	3	5		
980	1				3	2	5		
	6	0	6 6		3	2	5		25X
	6	0	6		3	2	5		
					8	1	9		
981					5	4	9		
561			_		6	3	9	-	
	6	1	. 7		4	2	6	2	25X
	6	7	13	1984					
	5	6	11	1304					
	5	6	11		5	1	6	25	5 X 1
	3	12	15		5	1	6		
	2	15	17		10	1	11		
	7	8	15		4	1	5		
	4	7	11		6	0	6		
	3	7	10		5	1	6		
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13. The CRUSTY navigational mod and CRUSTY satellite communications mod are two other variants of the Tu-134 CRUSTY that were seen at the plant during the reporting period. The CRUSTY navigational mod (Figure 8) can be identified by the two dorsal protrusions, probably sextant ports, slightly off center on the port side of the aircraft. This aircraft, a probable military navigation gation training aircraft, has been identified both at the production facility and at Soviet navigation training-associated airfields. The CRUSTY satellite communications mod (Figure 9) has a raised area along the fuselage centerline (similar to that of the CLASSIC satellite communications mod) that is probably modified for Molniya satellite communications.3 (S/WN)

14. The overall CRUSTY production rate has decreased since 1981. The rate, which had been assessed at approximately 4.5 aircraft per month since 1976, decreased to 4 per month in 1980 and to 3.5 per month in 1981 and 1982.4 Analysis of imagery during 1983 and 1984 indicates that this

rate is still declining. A portion of the new production is intended for foreign markets, as evidenced by the sighting of standard CRUSTYs with Polish and Syrian markings at Kharkov Airframe Plant 135 since 1982. The production rate of the standard CRUSTY is decreasing while production of the CLOBBER (Yak-42), the reported replacement for the Tu-134, is increasing (Table 3).4 (S/WN)

Other Observations

15. Passenger loading ramps (Figure 10) were often observed on the apron adjacent to the final assembly/checkout building next to the aircraft checkout area (Figure 2). (S/WN)

Security

16. Plant 135 is secured by a perimeter wall, probably of masonry construction, with entrances on the western and eastern walls. This plant is served only by road and air. (S/WN)

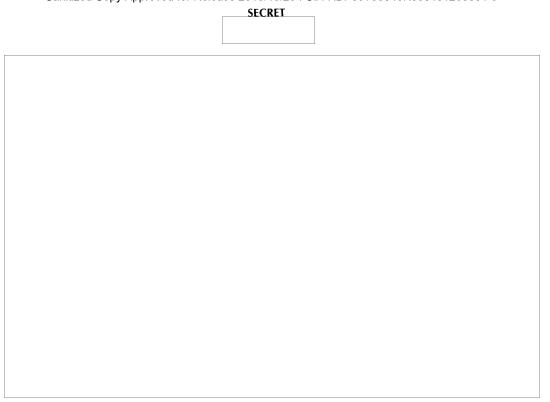


Table 3. CRUSTY and CLOBBER Production, 1978 to 1983⁴

Aircraft	Start Production	1978	1979	1980	1981	1982	Cumulative Production
CRUSTY	1966	52	53	48	42	42	640
CLOBBER	1977	4	7	12	36	36	100

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MAPS OR CHARTS		
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4. DIA. DDB-1923-2A-83-SAO, Foreign Aircraft Production (FOAP) Cor	nmunist World (U), Aug 83 (TOP SECRET	25X1 25X1
REQUIREMENT		
COMIREX J02 Project 545003J		
Comments and queries regarding this report are welcome. They may be Navy, and Nuclear Division; Imagery Exploitation Group; NPIC;	e directed to Soviet Air,	25X1 25X1

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